

Pronto 3 - 4 DC



UNIVERSAL SEED DRILL FOR ALL CONDITIONS



Pronto 3 - 4 DC

FASTER – SIMPLER – SAFER

- Low horsepower requirement: low weight, possibility of intermediate packer and side packer mounted on the machine frame
- Up to three different components can be placed in three different horizons.
- Optional MiniDrill versions are possible as a second or third component.
- DiscSystem as a front tool: 46 cm disc diameter with high rotation speed for high fine soil production



Pronto Principle

The continuous optimisation of the different working steps in the machine were essential for the success of the Pronto DC. By now, the Pronto principle is well-known all over the world and consists of the following three steps:

1. Step: seedbed preparation

The 46 cm discs achieve very high rotational speeds, can mix the soil very aggressively, produce important fine earth and level the seedbed.

2. Step: consolidation

The tyre packer that is arranged in one line, guarantees optimum consolidation and levels the soil. Thus, it creates equal conditions for every seed coulters.

3. Step: sowing

The third generation of the TurboDisc seed coulters guarantees precise sowing. The coulters pressure amounts to 125 kg and moreover, the coulters are maintenance-free. The double disc coulters pre-shape the seed furrow, the seed is placed, the uniformer keeps the seed in the seed furrow and the pressure roller guarantees an optimum seed-soil contact.

This principle of seedbed preparation, consolidation and sowing guarantees even conditions for every sown plant and thus guarantees a homogeneous emergence.



Pronto 4 DC while sowing catch crop



Optional bout markers for easy bout tracking

DiscSystem

IDEAL SEEDBED PREPARATION IN ALL CONDITIONS

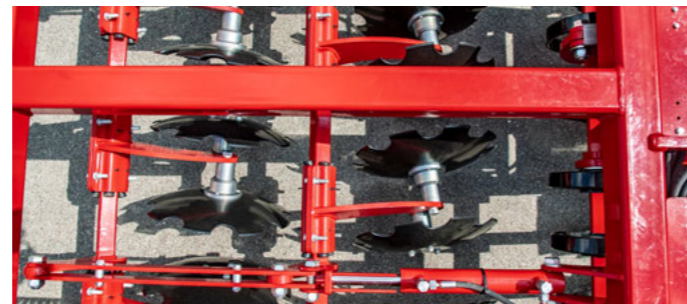


The 46 cm discs with a serrated profile achieve high rotational speeds and the penetration is excellent. The soil is mixed very aggressively, important fine soil is produced and the seedbed is levelled. Clearance is optimum as the disc elements are arranged in pairs. This additionally increases the reliability of the machine. The hydraulic depth adjustment allows for an infinitely variable adjustment while driving

- Efficient crumbling and even levelling over the whole working width
- High clearance extends the range of applications and increases reliability
- Increasing quality of work with increasing operational speed
- Hydraulic depth adjustment, infinitely variable while driving



DiscSystem Pronto DC with attachment frame for track eradicator discs



DiscSystem Pronto DC – 46 cm discs with serrated profile

Tyre packer with AS profile

RUGGED, EFFICIENT, LOW HORSEPOWER REQUIREMENT



The HORSCH tyre packer ensures a targeted and even levelling and consolidation in front of every seed coulters. The tyres are arranged in one line. Thus, clearance is optimum even on light soils. The straight tyre profile increases consolidation. The 10-ply special HORSCH tyres ensure a long service life.

An efficient consolidation below the seed horizon guarantee a better water distribution towards the seeds. The horsepower requirement is low due to large tyre diameter and no scrapers are required.

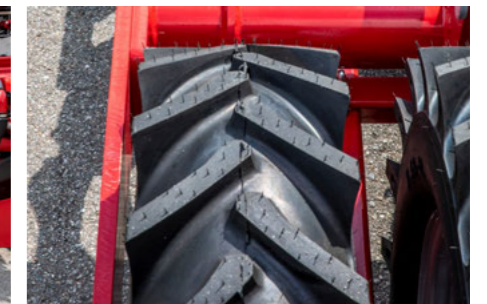
- Targeted, even levelling and consolidation in front of each seed coulters
- Straight tyre profile increases consolidation in the consolidation area
- Packer middle section also serves as a chassis for transport
- Efficient consolidation below the seed horizon for better water distribution towards the seeds
- Low horsepower requirement due to large tyre diameter and no scrapers required



Efficient consolidation below the seed horizon for better water distribution towards the seeds



Low horsepower requirement due to large tyre diameter and no scrapers required



Straight tyre profile increases consolidation in the consolidation area

TurboDisc seed coulters

THE THIRD GENERATION GUARANTEES A HEADSTART IN THE FIELD OF SEED PLACEMENT



A perfect embedding of the seed and an immediate seed-soil contact are important for a safe and even emergence. HORSCH perfectly copes with the challenge to achieve this objective even at high operational speeds. The solution is called TurboDisc. The double disc coulters that have been used and constantly developed further by HORSCH for more than 20 years excel due to their precise seed placement. The press wheel-controlled coulters design allows for a quick following of the soil contours at high speeds. Thus, the set placement depth can be kept up for every single grain.

The double disc seed coulters with a maintenance-free bearing opens the soil and thus allows for an undisturbed seed placement. The integrated Uniformer ensures the fixing of the seed at the bottom of the seed furrow even at very high operational speeds. A carbide coated scraper keeps the space between the discs clean and thus prevents clogging even in sticky and wet conditions. The 5 cm or 7.5 cm wide press wheel then ensures an optimum seed-soil contact and an exact depth control.

In addition to the excellent following of the soil, the TurboDisc seed bar excels due to the easy operation: with regard to their adjustment, coulters pressure and seed depth do not influence each other. The maintenance-free rubber bearings of the seed coulters transfer a coulters pressure of up to 125 kg and thus guarantee a smooth coulters – up to an operational speed of 20 km/h. Furthermore, the rubber bearing serves as an overload protection and a shock absorber for stones.

- Double disc coulters
- Creates a precise seed furrow
- Press wheel-controlled (5 cm or 7.5 cm wide)
- Uniformer prevents the grains from bouncing
- Inside scraper prevents blocking and clogging of the coulters
- Coulters pressure up to 125 kg via rubber torsion
- Designed for precise seed placement at high operational speeds
- Allows for an even and safe emergence



5 cm wide press wheel – ideal on medium and heavy soils



7 cm wide press wheel – ideal on light soils



The movable scraper ensures a high self-cleaning effect in wet conditions



The HORSCH Uniformer – TurboDisc seed coulters ensures a precise fixing of the seed



The straight harrow – TurboDisc seed coulters harrow is controlled individually for a more efficient tillage

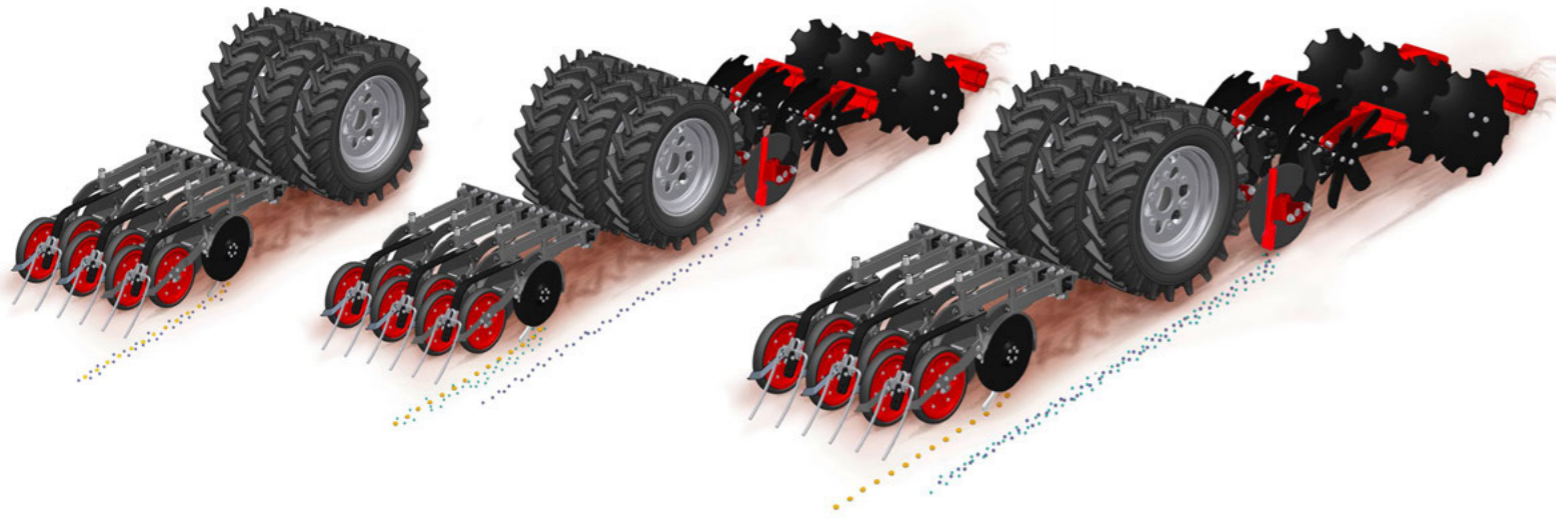


HORSCH TurboDisc seed coulters

MiniDrill Variant 1 & 2 – Application into the seed coulters

MiniDrill version 3 with double hopper PPF – application into the seed coulters

MiniDrill version 4 with double hopper PPF – application into the PPF disc system



MiniDrill version 7: application via baffles between the seed coulters

MiniDrill version 8: application via baffles behind the seed coulters

MiniDrill version 9: application via the baffles at the optional Crossbar. Ideal for applying underseeds as they are consolidated again by the tyre packer.



MiniDrill G&F versions

ADDITIONAL CAPACITY OF 400 L FOR FINE SEEDS OR MICROGRANULAR COMPOUNDS

With regard to the MiniDrill HORSCH offers various versions.

- The MiniDrill can be used as a second or third hopper for seed, fertiliser or microgranular compounds. It can either meter into the seed coulters or into an optional PPF disc system.
- The MiniDrill with a capacity of 400 l

- Example 400 l of rape seed in the MiniDrill allow for filling the other hoppers with mineral fertiliser.
- Filling stops are easily reduced, and you gain valuable time for sowing. Thus, when sowing rape, the efficiency of the machine almost doubles.



MiniDrill in the front – Pronto DC



MiniDrill G&F versions

MiniDrill Solo versions

MINIDRILL SOLO VERSIONS FOR THE APPLICATION ON ANOTHER HORIZON

The MiniDrill Solo versions allow for three further application options.

- This further component is applied via deflector plates on the surface of the field.
- In this case, you can use the MiniDrill to take along microgranular compound, underseeds or slug pellets

- The solo versions of the MiniDrill are equipped with an own fan, an own pneumatic system with a separate distributor tower and baffles
- There are three options for the position of the baffles
 - Between or behind the seed coulters or at the optional Crossbar in front of the tyre packer of the Pronto



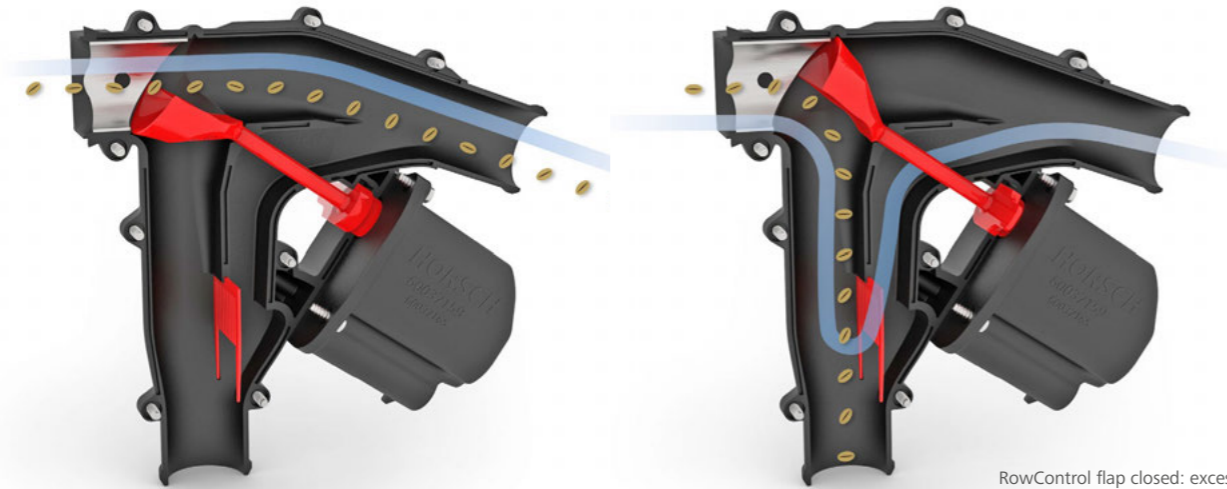
MiniDrill in the rear – Pronto DC



The MiniDrill Solo versions are equipped with an own fan, an own pneumatic system and another placement horizon

RowControl distribution tower

INDIVIDUAL ROW CONTROL FOR SEED DRILLS



RowControl flap open: seed is transported to the coulter

RowControl flap closed: excess air escapes via the coulter, the seed is transported to the injector and supplied into the distribution tower – no transverse distribution losses

The RowControl distribution tower lifts SectionControl in seed drills to a completely new level!

The new distribution tower can do more than just SectionControl:

- Possibility of individual row switch-off to the last row
- Freely selectable tramlines
- Freely adjustable row spacings

These functions are possible as with an individual row switch-off system the distribution tower can separate the air and the seed flow. Thus, this does not affect the lateral distribution.

The SectionControl offers individual row switch-off for saving fertiliser and seed. By avoiding overlaps on the headlands, in wedges or in case of obstacles, the development of the individual plant is improved and the disease and competition pressure in these areas is reduced.

Avoiding overlapping reduces the required seed quantity and prevents over-fertilisation on the headlands and in wedges. Thus, the farmer can save costs quite easily.



RowControl distribution tower – 2-tower version at the Pronto 6 & 7 DC



RowControl distribution tower

Fertiliser and seed flow control

FLOW CONTROL AT THE DISTRIBUTION TOWER

The fertiliser and seed flow control is a reasonable electronic solution to prevent sowing errors. The sensors control the flow directly behind the distribution tower and detect blockages. Thus, the individual pneumatic hoses are monitored and within seconds you get a notification in the terminal – both acoustic and visual.

- For a complete monitoring of the seed and fertiliser hoses
- Warning if a pneumatic hose is blocked
- Sowing errors are avoided
- Monitoring of the pneumatic flow at the distribution tower



Fertiliser and seed flow monitoring – for a permanent monitoring of the seed and fertiliser hoses



Monitoring of the pneumatic flow at the distribution tower

Oil cooler

THE IDEAL SOLUTION FOR FERTILISER APPLICATION WITH HIGH AIR HUMIDITY

The optional oil cooler at the hydraulic fan heats up the air flow in the pneumatic system. This reduces the oil temperature in the system and relieves the oil cooler of the tractor. Another very important advantage is that it maintains the flowability of the fertiliser in wet conditions, e.g. dew in the evening.

- Heats up the air flow in the pneumatic system
- Maintains the flowability of fertiliser in wet conditions, e.g. dew in the morning
- Reduces the oil temperature in the system and relieves the oil cooler of the tractor



Oil cooling on the hydraulic fan – heats the air flow in the pneumatic system



Reduces the oil temperature in the system and relieves the oil cooler of the tractor

Intermediate axle packer & front packer



Low horsepower requirement par excellence

Lowest possible track depths of the tractor in the seedbed guarantee good plant populations and reduce the horsepower requirement of the Pronto DC even further. The tyre packer that can be mounted additionally takes the weight of the machine, relieves the rear axle of the tractor and additionally levels the surface. This guarantees that the disc harrow can work more shallowly and this saves tractive power and fuel.

- Lowest possible track depths of the tractor in the seedbed
- Relieves extra load from the rear axle of the tractor
- Additional levelling of the surface
- Shallow working of the disc harrow is possible due to the lower track depths of the tractor
- Low horsepower requirement saves fuel



Front packer – Pronto 6 DC



Lowest possible track depths of the tractor in the seedbed

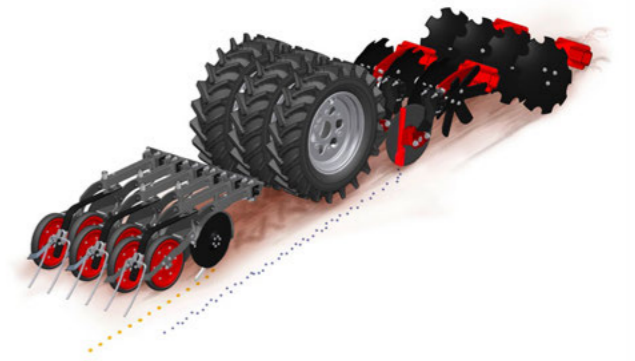


Low horsepower requirement saves fuel

ADDITIONAL EQUIPMENT



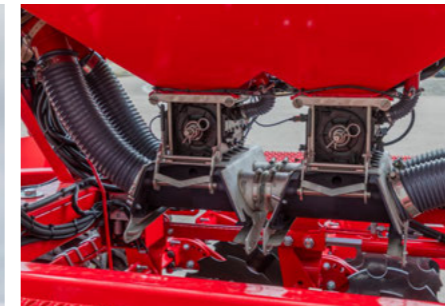
Double hopper Grain & Fertiliser – joint placement of two components via the TurboDisc seed coulters



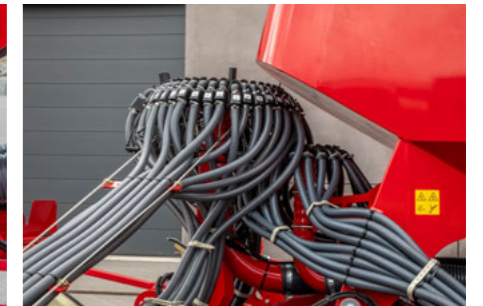
Double hopper with PPF system – allows for simultaneously applying 2 components on 2 horizons



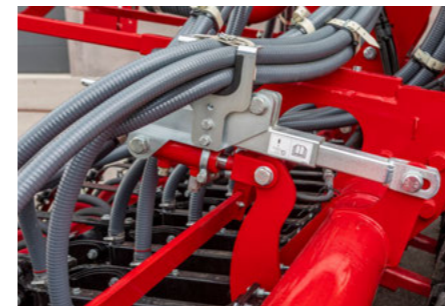
WorkLight Pro



Double hopper G & F – meter different components separately and place them together in the seed coulters



External position of the PPF distribution tower for optimum accessibility



The coulter pressure can be increased via the tractor control device



Spelt pneumatics for husk-bearing seeds



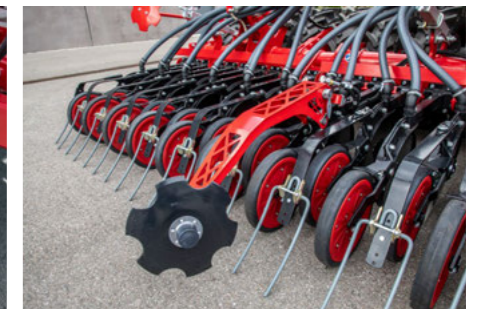
Optimised pneumatic hosing and chamfered seed tubes



Pronto 4 DC with 1-row harrow behind the DiscSystem



Spring-loaded track eradicator tines loosen soil compactions in the tractor track



The aggressiveness of the pre-emergence marker is adjusted via a depth stop

INTELLIGENCE

eosT10 (Pro)

- High-resolution 10" terminal for controlling all ISOBUS devices according to ISO 11783
- Reliable and powerful: a high-performance hardware combined with an intuitive, user-friendly operation in daytime or night mode
- Straightforward transfer of application maps with the wireless Task Data Exchange
- Various layout options allow for a simultaneous display of several applications – for an optimum overview



By displaying up to 3 widgets in addition to the main working screen, the user can keep track of several applications at the same time

Rotor selection

- Facilitates the selection of the optimum rotor for any application
- Wide selection range from normal seeds to fine seeds to fertiliser and micro-granular compound
- Expert mode to carry out rotor configurations also for variable operating speeds and application rates

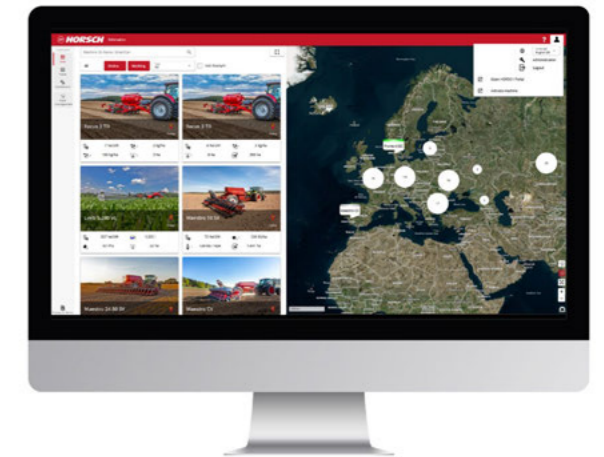


AutoLine

- Automatic, GPS-based tramline control
- Optimised driving strategy near obstacles or on the headlands
- Track-to-track driving is no longer required
- Available in combination with the terminal eosT10 Pro

HorschConnect

Prepare today for tomorrow. Control different machine functions quite easily via the MobileControl app – your smartphone replaces the terminal! In addition, gain complete, transparent insight in all aspects of work performance and working quality with HorschConnect Telematics.



With HorschConnect telemetry solutions can be found in the sowing and plant protection sector – exactly where they make sense

- Digital solutions exactly where they make sense
- Straightforward out-of-the-box solution with integrated SIM card, WLAN modem and other interfaces
- HorschConnect Telematics to document the performance of the machine
- HorschConnect Telematics for complete transparency of the working quality, e.g the application rate of all components
- Targeted and proactive service due to remote insight in the error messages
- Control of machine functions via smartphone app MobileControl: e.g. calibration of all metering units



The MobileControl app allows for controlling individual machine functions – completely comfortably from the smartphone



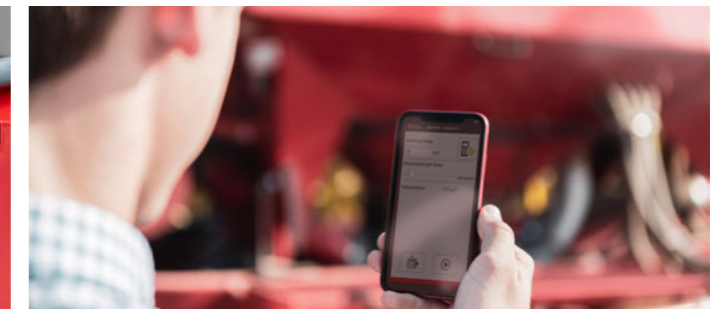
Due to the flexible holder, the eosT10 can be perfectly integrated in every cabin



The rotor selection app facilitates the selection of the optimum rotor for any application



Straightforward out-of-the-box solution with a wide range of integrated interfaces



Quick and easy calibration of the machine via smartphone with the MobileControl app

TECHNICAL DATA

Pronto 3 - 4 DC	3 DC	4 DC
Working width (m)	3.00	4.00
Transport width (m)	3.00	3.00
Transport height (m)	2.99	2.99
Length (m)	6.50	6.90
Axle load (kg)	2700 - 4500	4100 - 6000
Vertical load (kg)	550 - 1200	700 - 1450
Seed hopper capacity (l)	2800	2800
Hopper capacity double hopper (l)	4000 (40 : 60)	4000 (40 : 60)
Hopper capacity MiniDrill (l)	400	400
Feed opening single hopper (m)	0.80 x 2.25	0.80 x 2.25
Feed opening double hopper (m)	0.60 x 2.45	0.66 x 2.45
Filling height single hopper (m)	2.48	2.48
Filling height double hopper (m)	2.90	2.90
Number of PPF coulters (PCE)	10	14
Coulter pressure PPF coulters (kg)	up to max. 200	up to max. 200
Number of seed coulters (PCE)	20	28
Coulter pressure seed coulters TurboDisc (kg)	15 - 125	15 - 125
Coulter pressure seed coulters ParaDisc (kg)	---	---
Seed coulters/press wheels Ø TurboDisc (cm)	34 / 32	34 / 32
Row spacing (cm)	15.0	14.3
Tyre packer size	7.50 - 16 AS	7.50 - 16 AS
Tyre packer Ø (cm)	78	78
Operational speed (km/h)	10 - 20	10 - 20
Horsepower requirement (kW/hp)	80 - 110 / 110 - 150	95 - 130 / 130 - 180
DA control devices	3 (resp. +1 for filling auger, coulter pressure adjustment, Crossbar)	3 (resp. +1 for filling auger, coulter pressure adjustment, Crossbar)
Depressurized return flow (max. 5 bar) (BAR)	1	1
Oil quantity hydraulic fan (l/min)	20-25 single hopper / 35-45 double hopper	20-25 single hopper / 35-45 double hopper
Implement attachment lower link	Cat. II/III - III - III/IV	Cat. II/III - III - III/IV





Your distributor

HORSCH Maschinen GmbH
Sitzenhof 1 · 92421 Schwandorf
Phone: +49 9431 7143-0
Fax: +49 9431 7143-9200
E-Mail: info@horsch.com

horsch.com

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All specifications and diagrams are approximate and not binding. Technical features and design are subject to change.

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